

**What is claimed is:**

1. A device for enhancing combustion efficiency of a fossil fuel supplied through a fuel-supply pipe to an engine and combustion device, providing the fuel-supply pipe and capable of enhancing the combustion efficiency of the fuel at the engine and combustion device, including:

a case, which is formed in the shape of a cylinder, having an enhancing chamber which has several times an internal diameter of said fuel-supply pipe thereinto, and both ends of said case provided at a sealing state;

jointed pipes for inputting and outputting, which are attached to said both ends of said case or portions adjacent said both ends of said case, connecting with said enhancing chamber of said case and said fuel-supply pipe; and

a fuel-enhancing unit installed into said enhancing chamber of said case, further including a pair of supporting plates which are provided at parts adjacent both ends of said enhancing chamber, forming a plurality of holes; a supporting body attached both ends thereof to a center portion of said supporting plates; a plurality of supporting bars supported both ends thereof by said supporting plates; and a plurality of burned objects provided to each supporting bar, generating far-infrared radiation and negative ion, forming in the shape of a crescent moon in section, forming insertion holes for said supporting bars, corresponding to a size producing an inputting space of said fuel to an outer circumferential part of said supporting bar, generating far-infrared radiation and negative ion.

2. A device for enhancing combustion efficiency of a fossil

fuel supplied through a fuel-supply pipe to an engine and combustion device, providing the fuel-supply pipe and capable of enhancing the combustion efficiency of the fuel at the engine and combustion device, including:

a case including a case body, which is formed in the shape of a cylinder, having an enhancing chamber which has several times an internal diameter of said fuel-supply pipe thereinto and blockage bodies which are fixed at both ends of said case body at a sealing state, attaching jointed pipes for inputting and outputting, which are formed circular arc-shaped concave parts at an inner wall which is connected to said fuel-supply pipe; and

a fuel-enhancing unit installed into said enhancing chamber of said case, further including a pair of supporting plates which are provided movably at parts adjacent both ends of said enhancing chamber, forming a plurality of holes; a supporting body attached both ends thereof to a center portion of said supporting plates; three or four supporting bars supported both ends thereof by said supporting plates at a predetermined space; and a plurality of burned objects provided to each supporting bar, generating far-infrared radiation and negative ion, forming in the shape of a crescent moon in section, forming insertion holes for said supporting bars, corresponding to a size producing an inputting space of said fuel to an outer circumferential part of said supporting bar, providing to be a concave part at an inputting side and generating far-infrared radiation and negative ion.